Substitute for form 1449 INFORMATION DISCI STATEMENT BY APPLICANT

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MAR 0 7 2002

Application No. 09/913,325 Applicant: Gleave et al

Filing Date: August 10, 2001

Title: TRPM-2 Antisense Therapy TECH CENTER 1600/2900 Attorney Docket No.: UBC.P-020

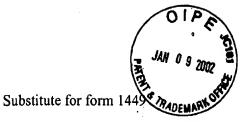
Page 1 of 2

U.S. PATENT DOCUMENTS

Examiners Initials	U S Patent No.	Name of Persons or applicant	Date of Publication of Cited Document
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	·	FOREIGN PATENT DOCUMEN	1 C
	Patent No.	Name of Persons or applicant	Date of Publication of Cited Document
	Patent No.		Date of Publication of Cited

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials				
TV	Buttyan et al., "Induction of the TRPM-2 Gene in Cells Undergoing Programmed Death" Molecular and Cellular Biology Aug. 1989, Vol. 9, No. 8, pp. 3473-3481			
	Millar et al., "Localization of mRNAs by in-situ hybridization to the residual body at stages IX-X of the cycle of the rat seminiferous epithelium: fact or artefact?" International Journal of Andrology, 17:149-160			
	Darby et al., "Vascular Expression of Clusterin in Experimental Cyclosporine Nephrotoxicity" Exp Nephrol 1995; 3:234-239			
	Milner et al., "Selecting effective antisense reagents on combinatorial oligonucleotide arrays" <i>Nature Biotechnology</i> Volume 15, June 1997, pp. 537-541			
	Sensibar et al., "Prevention of Cell Death Induced by Tumor Necrosis Factor alpha in LNCaP Cells by Overexpression of Sulfated Glycoprotein-2 (Clusterin)," Cancer Research. June 1, 1995, Vol. 55, pp. 2431-2437			
	Miyake et al., "Testosterone-repressed Prostate Message-2 Is an Antiapoptotic Gene Involved in Progression to Androgen Independence in Prostate Cancer", Cancer Research 60, January 1, 2000, pp. 170-176			
	Yang et al., "Nuclear clusterin/XIP8, an x-ray-induced Ku70-binding protein that signals cell death", <i>Proc. Nat'l. Acad. Sci. USA</i> , Vol. 97, Issue 11, pp 5907-5912, May 23, 2000			
I	Benner, et al., "Combination of Antisense Oligonucleotide and Low-Dose Chemotherapy in Hematological Malignancies", Journal of Pharmacological and Toxicological Method, 37:229-235 (1997)			



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page 2 of 2

TV	Kadomatsu, et al, "Expression of sulfated glycoprotein 2 is associated with carcinogenesis induced by N-nitroso-N-methylurea in rat prostate and seminal vesicle", Cancer Res April 1, 1993, 53(7):1480-1483
	Kyprianou, et al., "bcl-2 over-expression delays radiation-induced apoptosis without affecting the clonogenic survival of human prostate cancer cells.", Int J Cancer, Jan. 27, 1997, 70(3):341-348
	Wright, et al., "A ribonucleotide reductase inhibitor, MDL 101,731, induces apoptosis and elevates TRPM-2 mRNA levels in human prostate tumor xenografts.", Exp Cell Res, Jan. 10, 1996, 222(1):54-60
\overline{V}	Bruchovsky, et al., "Control of tumor progression by maintenance of apoptosis.", Prostate Suppl., 1996, 6:13-21

This Information Disclosure Citation List is being submitted as a substitute for Form PTO-1449. The Examiner is requested to place his or her initials on the lines adjacent to the citations to indicate that the reference has been considered. The Examiner is further requested to fill in his or her name and the date the information was considered in blocks at the bottom of this substitute for Form PTO-1449.

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MAR: 31 2003

TECH CENTER 1600/2900

Application No.:

09/913,325

Applicant:

Gleave, et al.

Filing Date:

08/10/2001

Conf. No.:

8469

Title: TRPM-2 Antisense Therapy

Attorney Docket No.:

UBC.P-020

Page 1 of 2

U.S. PATENT DOCUMENTS

Examiners Initials	U S Patent No.	Name of Persons or applicant	Date of Publication of Cited Document
TV	5,789,389	Tarasewicz et al.	08/04/1998
TV	6,335,194 B1	Bennett et al.	01/01/2002

FOREIGN PATENT DOCUMENTS

Examiners Patent No.		Name of Persons or applicant	Date of Publication of Cited Document	
TV	WO 01/46455 A2	Yale University	06/28/2001	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials						
TV		Nör et al.; Up-Regulation of Bcl-2 in Microvascular Endothelial Cells Enhances Intratumoral Angiogenesis and Accelerates Tumor Growth; Cancer Research; Vol. 61; March 1, 2001; 2183-2188.				
		Kirby et al.; Bartonella-Associated Endothelial Proliferation Depends on Inhibition of Apoptosis; PNAS; Vol. 99, No. 7; April 2, 2002; 4656-4661.				
		Cox et al.; Angiogenesis and Non-Small Ceil Lung Cancer; Lung Cancer; Vol. 27, 2000; 81-100.				
	-	Tran et al.; A Role for Survivin in Chemoresistance of Endothelial Cells Mediated by VEGF; PNAS; Vol. 99, No. 7; April 2, 2002; 4349-4354.				
		Nör et al.; Engineering and Characterization of Functional Human Microvessels in Immunodeficient Mice; Laboratory Investigation; Vol. 81, No.4; April 2001; 453-463.				
V		Boral et al.; Clinical Evaluation of Biologically Targeted Drugs: Obstacles and Opportunities; Cancer Chemother Pharmacol; Vol. 42; 1998; S3-S21.				

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Substitute for form 1449 STATEMENT BY APPLICANT TECHCENTER 1600/2900 INFORMATION DISCLOSURE

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Attorney Docket No.:

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Page 2 of 2

TV		Zwain et al.; Clusterin Protects Granulosa Cells from Apoptotic Cell Death During Follicular Atresia; Experimental Cell Research; Vol. 257; 2000; 101-110.	
		Lee et al.; In Vitro Models of Prostate Apoptosis: Clusterin as an Antiapopotic Mediator; The Prostate Supplement; Vol. 9; 2000; 21-24.	
		Genta Incorporated; New Data Reaffirm Genta's Molecular Target as Critical Factor for Enhancing Anticancer Treatment; www.genta.com : 2001.	

This Information Disclosure Citation List is being submitted as a substitute for Form PTO-1449. The Examiner is requested to place his or her initials on the lines adjacent to the citations to indicate that the reference has been considered. The Examiner is further requested to fill in his or her name and the date the information was considered in blocks at the bottom of this substitute for Form PTO-1449.

Examiner Signature

Electronic Information Disclosure Statement

TRPM-2 Antisense Therapy

Application:

09/913325

Confirmation:

8469

Applicant(s):

Martin Gleave

Docket Number:

UBC.P-020

Group Art Unit:

1635

Examiner:

LaCourciere

search string:

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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

llinit	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
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				Examiner Name	Karen Lacourciere	
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	U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.¹	Cite Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
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TV		WO 00/49937	8/31/2000	The University of British Columbia	Appear	
		WO 02/22635 A1	3/21/2002	ISIS Pharmaceuticals, Inc.		
		WO 03/062421 A1	7/31/2003	The University of British Columbia		
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Sheet

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Application Number	09/913,325		
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Art Unit	1635	_	
Examiner Name	Karen Lacourciere		
Attorney Docket Number	UBC.P-020		

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials* Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²	
		GLEAVE ET AL., Use of Antisense Oligonucleotides Targeting the Antiapoptotic Gene, Clusterin/Testosterone-Repressed Prostate Message 2, to Enhance Androgen Sensitivity and Chemosensitivity in Prostate Cancer, 2001, Page(s) 39-49, Publisher: Elsevier Science Inc.		
		GLEAVE ET AL., Antisense therapy: Current status in prostate cancer and other malignancies, Cancer and Metastasis Reviews, 2002, Page(s) 79-92, Volume 21, Publisher: Kluwer Academic Publishers		
		GLEAVE ET Al, Targeting anti-apoptotic genes unregulated by androgen withdrawal using antisense oligonucleotides to enhance androgen - and chemo-sensitivity in prostate cancer, Investigational New Drugs, 2002, Page(s) 145-158, Volume 20, Publisher: Kluwer Academic Publishers	-	
		GLEAVE ET AL., Antisense Targets to Enhance Hormone and Cytotoxic Theraples in Advanced Prostate Cancer, Current Drug Targets, 2003, Page(s) 209-221, Volume 4		
		JONES ET AL., Molecules in focus Clusterin, The International Journal of Biochemistry and Cell Biology, 2002, Page(s) 427-431, Volume 34		
		MIYAKE ET AL., Novel therapeutic strategy for advanced prostate cancer using antisense oligodeoxynucleotides targeting antiapoptotic genes upregulated after androgen withdrawal to delay androgen-independent progression and enhance chemosensitivity, International Journal of Urology, 2001, Page(s) 337-349, Volume 8		
		MIYAKE ET AL., Synergistic Chemsensitizaion and Inhibition of Tumor Growth and Metastasis by the Antisense Oligodeoxynucleotide Targeting Clusterin Gene in a Human Bladder Cancer Model ¹ , Clinical Cancer Research, 12/2001, Page(s) 4245-4251, Volume 7		
		MIYAKE ET AL., Antisenst TRPM-2 Oligodeoxynucleotides Chemosensitize Human Androgen-independent PC-3 Prostate Cancer Cells Both <i>in Vitro</i> and <i>in Vivo</i> ¹ , Clinical Cancer Research, 5/2000, Page(s) 1655-1663, Volume 6		
		ROSENBERG ET AL., Clusterin: Physiologic and Pathophysiologic Considerations, International Journal of Biochemistry, 1995, Page(s) 633-645, Volume 27, Number 7, Publisher: Elsevier Scienct Ltd.		
		WILSON ET AL., Clusterin is a secreted mammalian chaperone, Frontlines, 3/2000, Page(s) 95-98		
1		WONG ET AL., Molecular characterization of human TRPM-2/clusterin, a gene associated with sperm maturation, apoptosis and neurodegeneration, European Journal of Biochemistry, 1994, Page(s) 917-925, Volume 227	•	

Examiner Signature	2) roon	Malemore	Date Considered	10/22/04

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7.V	ZANGEMEISTER-WITTKE ET AL., A Novel Bispecific Antisense Oligonucleotide Inhibiting Both bcl-2 and bcl-xL Expression Efficiently Induces Apoptosis in Tumor Cells, Clinical Cancer Research, 6/2000, Page(s) 2547-2555, Volume 6	
	ZELLWEGER ET AL., Antitumor Activity of Antisense Clusterin Oligonucleotides is Improved in Vitro and in Vivo by Incorporation of 2'-O-(2-Methoxy)Ethyl Chemistry, The Journal of Pharmacology and Experimental Therapeutics, 2/2001, Page(s) 934-940, Volume 298, Number 3	
	ZELLWEGER ET AL., Chemosensitization of Human Renal Cell Cancer Using Antisense Oligonucleotides Targeting the Antiapoptotic Gene Clusterin ¹ , The Prostate Centre, 2001, Page(s) 360-367, Volume 3, Number 4, Publisher: Nature Publishing Group	
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